

Study of the Forms of Organic Matter in Soils-
Application to the Natural Medium and to Control
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CS(RC)-3176

Sci

Aug 59

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Copper Bonding and Fixation by Humic Acid,
by E. Schlichting, 5 pp.

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SIA 57-3245

Sci

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Decomposition of Pectins: the First Attack on the
Organic Plant Substances, by K. T. Mieringa.

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CSIRO-3177

Sci

Jul 59

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Nitrogen Assimilation and Utilization
by Higher Plants Under Different Nutritional
Conditions, by H. Atansiu.

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CSIRO 4713

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Jul 62

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Saccharase Content of Soils Under the Influence of
Various Factors of Soil Fertility, by E. Hofmann,
K. Braunlich.
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Production Conditions and Characteristics
of Some Iron Phosphates. A Contribution to
Phosphate Fixing in the Soil, by F. Scheffer.
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SIA TT-66-10195

Sci-Agric
Jul 66

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Decomposition of Raw Phosphorus During Rotting of
Stable Manure, by H. Doring, 9 pp.

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CSIR 162

Sci - Chem
Sep 61.

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Quantitative Determination of Very Small
Quantities of Zinc in Soils, Vegetable and
Animal Substances and Manures, by K. Scharrer,
H. Munk.

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pp 24-242.

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Determination of Plant Available Nitrogen in
Soils, by G. Lehard.

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Sci-Biol & Med Sci
May 63

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Soil Dehydrogenase Activity as a Measure of the
Amount of Humic Matter Decomposable by Microbes,
by G. Lenhard.
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CSIRO/No 9575

Sci/Biol
July 69

386-844

Foliar Spraying with Mineral Salts, by G. Krysch,
GERMAN, per, Zeit für Pflanzenernährung, Düngung,
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C.S.D. R.O. 4274

Sci - min/mnt

May 60

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Fixation of Cobalt by Kaolinite, by R. Huser.
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Jul 67

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Influence Of Various External Factors On the Root
Hairs Of Rye Seedlings by W. Bergmann.

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CSIRO Tr 4187

Oct. 62

59-10377

Linder, R. and Lotschert, W.
A NEW ELECTRODE FOR DETERMINING THE
PHYSIOLOGICALLY EFFECTIVE SOIL MOISTURE
(Eine neue Elektrode zur Bestimmung der Physiologisch
Wirksamen Bodenfeuchtigkeit) tr. by John J. Stransky.
[1959] 6p. 10 refs.
Order from LC or SLA m\$1.80, ph\$1.80 59-16379

Trans. of Zeitschrift für Pflanzenernährung
Düngung, Bodenkunde (West Germany) 1958, v. 82,
no. 1, p. 33-37.

151765

- I. Soils--Moisture content
2. Electrodes--Design
- I. Linder, R.
- II. Lotschert, W.
- III. Southern Forest Experiment
Station, New Orleans, La.

Office of Technical Services

4-3-61

(Agriculture, TT, v. 5, no. 9)

Elimination of Phosphate Affected by
Osmotization of Calcium by Plant. Plant
Nutr., by M. Filcock.

GERMAN, P. Z. ~~Land Pflanzenwachstum~~
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pp 112-116.

NZDIA

Sci-Chem
May 68

234,417

Research Into the Synthetic Effects of Enzymes in the
Soil, by G. Hoffmann.
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Und Bodenkunde, Vol LXXXV, 1959, pp 193-201.
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Sci - Biol/Med
Jun 64

258,388

Vegatative Experiments With Helianthus Annus to
Determine the Quantitative Uptake of N, P,
and K Through the Leaves as Compared With
the Uptake Through the Roots, by H. Kick,
D. Hellwig.

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CSIRO 5139

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Principles and Methods for Growing the Garden
Strawberry (*Fragaria ananassa* Duch), by R. Bauer.

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1960, pp 73-100.

NRC/C-3923

Sci- 100
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Chem. und Biogeochem. Investigations - Agric.
Science, Micro Acid Degradation of Nitric
Substances, by H. Schatzmann.

Chemie, p. 2. (Zur Pflanzenkohlenstoff- und
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12-15, 15-16)

Chemie 15, 15-16

Sci - Chem

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15 7, 8 43

Comparative Investigations of Koch's Plate Method
and a Direct Method of Soil Examination Under the
Fluorescence Microscope, by W. Nowak.

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NTC-71-11265-02A

CAIRO 5351

Nov 71

Jung, J.
NUTRIENT SUPPLY FROM PLASTIC-COATED
FERTILIZER GRANULES. [1962] [6]p.
Order from SLA \$1.10 63-10295

Trans. of Zeitschrift für Pflanzenernährung,
Düngung, Bodenkunde (West Germany) 1960, v. 91,
no. 2, p. 127-130.

DESCRIPTORS: *Fertilizers, Nutrition, Particles,
*Plastic coatings, *Nitrogen, Potassium, Polymers,
Vinyl radicals, Chlorides, Absorption, Esters,
Urea formaldehyde resins, Calcium compounds,
Ammonium radicals, Nitrates.

The nutrient supply of fertilizer granules, coated with
plastic, was tested in a pot experiment. With large
nitrophoska granules (10 to 15 mm), the multiple
treatment with a diosan solution (mixed polymer of
(Agriculture--Plant Cultivation, TT, v. 10, no. 2)
(over)

63-10295

I. Jung, J.

Office of Technical Services

The Effects of Magnesium in Dolomite and
Sulphate, by H. Munk. 12 p.
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Duengung, Bodenkunde, Vol 92, No 1, 1961,
pp 36-46.
SIA TT-66-10522

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Jul 66

307,556

63-10519

1. Title: Crotonylidene urea
1. Jung, J.

Jung, J.
SLOW ACTING NITROGEN COMPOUNDS, ES-
PECIALLY CROTONYLIDENE UREA. [1962] [8]p.
10 refs.
Order from SLA \$1.10 63-10519

Trans. of Zeitschrift für Pflanzenernährung
Düngung, Bodenkunde (West Germany) 1961, v. 94,
no. 1, p. 39-47.

DESCRIPTORS: *Nitrogen compounds, *Urea,
Formaldehyde, *Fertilizers, Plants (Botany), Absorp-
tion (Biological).

Besides the usual mineral nitrogen fertilizers which
are available to the plants immediately or shortly
after introduction into the soil, it has been attempted
for a long time to find synthetic substances which
release nitrogen slowly, that is in sliding rates that
(Agriculture--Plant Cultivation, TT, v. 10, no. 3)
(over)

Office of Technical Services

Assimilation of Phosphate Forms From
the Soil and From Particle-Size ~~EM~~ Fractions
by Well-Rooted Plants, by F. Scheffer, et al.

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CSIFO 5654

Sci
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Experiments on the Chemical Decomposition of
a Natural Humic Acid, by F. Scheffer,
R. Kiekuth.

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CSIRO 5718

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 97. a. a. P. ...
 98. a. a. P. ...
 99. a. a. P. ...
 100. a. a. P. ...

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La and for W. Washington, Calif., at LRA, pp. typescript.

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Properties of Soils, by U. Schwertmann.

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GB/10/2796

Sci-Barth Sci
Jun 63

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Root Secretions of Higher Plants, by F. Scheffer.
GERMAN, per, Zeitschrift für Pflanzenernährung
Düngung und Bodenkunde, Vol 97, No 1, 1962,
pp 26, 40
CSIRO, No 6582

Sci -
Jul 67

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Model Experiments on Undisturbed Soil Columns
Dealing With Soil Genetic Mechanisms Using
Radioactive Soil Constituents. 1. Assay Technique
and Experimental Setup, by h. Scharpenseel,
W. Kerpen.
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Bodenkunde, Vol CI, No 1, 1963, pp 1-10.
CSIRO No 6709

Sci - Earth Sci/Astron
Apr 64

257,284

Distribution of Organic Matter and Carbohydrates in
"Root-Free" Soil Material Sifted by Flotation., by
H. Roulet.

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CSINC/No. 778

Sci -

July 1967

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Investigations of the Distribution of Molecular
Weight of Human Substances by Gel Filtration
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137.

NTC-71-12507-07C
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Nov 71

Formation and Binding of Microaggregates in Soils, by
~~F. Koenig~~. Koenig, H.
GERMAN, per, Zeitschrift fuer Pflanzenernaehrung, Duengung,
Bodenkunde, vol. 104, 1964, pp. 12-24.
NTC 70-17065-02C

COIRU/NO 7073

Distribution of Organic Matter and Carbohydrates
in Root-Free Soil Material Sifted by Flotation,
by N.C. Mehta.

GERMAN, per, Zeit fuer Pflanzenernaehrung,
Duengung und Bodenkunde, vol. 101, no.3,
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NTC 71-11097-02a

JULY 71

Information on the Spruce Saw-flies. IV. The
Dispersion by B. Ohnesorge and W. Thalenhorst.

GERMAN, per, Zeitschrift Fur Pflanzenkrankheiten,
Pflanzenpathologie Und Pflanzenschutz, Vol LXIII,
No 4, 1956

CSIRO

Oct. 62

62-22476

Kanngiesser, W.
PAPER-ELECTROPHORETIC INVESTIGATION OF
PRESSURE-DIALYTIC CONCENTRATED LEAF EX-
TRACTS OF HEALTHY AND VIRUS-DISEASED TO-
BACCO PLANTS. [1962] 21p.
Order from K-H \$26.25 K-H 8214

Trans. of Zeitschrift für Pflanzenkrankheiten [Pflan-
zenpathologie] und Pflanzenschutz (West Germany) 1957,
v. 64, no. 5, p. 257-271.

DESCRIPTORS: *Electrophoresis, *Tobacco, Plants,
*Virus diseases.

(Biological Sciences--Botany, TT, v. 9, no. 1)

I. Kanngiesser, W.
II. K-H-8214
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Office of Technical Services

Symptoms of Molybdenum Deficiency in Various
Cultivated Plants, by E. Brandenburg.
GERMAN, per, Z. PflKrankh. PflPath. PflSchutz,
Vol 68, 1961, pp 532-541.
LAD

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aug 69

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About the Influence of Various Environmental
Factors on Plant Sensitivity With Respect to
Sulfur Dioxide, by R. Zahn.
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1963, pp 81-95.
NTC-71-12674-02D

Nov 71

Insecticide Reaction Aerosols, by
H. G. Bremer,
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Pflanzenpathologie und Pflanzenschutz,
Vol 70, No 3, 1963, pp 147-157.
NTC-69-16364-02D

Sci-Agri
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English Title Unknown, by E. R. Jaensch.
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ung. Zur Analyse der Gesichtswahrnehmungen,
von E.R. Jaensch, 1909, pp 321-352.
*NASA TT F-12,101

Jan 69

Focussing Sequences of 110-Collisions in Face-Centered
Cubic Crystals at Small Angular Deviations, by
Chr. Lehmann, G. Leibfried,

GERMAN, per, Z fuer Physik.

*AERE, Harwell

Sci -
24 Apr 61
List 52

Crystal Hyper Fine Structure in the Spectrum
of Praseodymium Salts, by A. M. Kallvege,
K. H. Kallvege, 5 pp.

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A.E.R.E. Harwell
Tr 492

Sci - Physics, Chemistry, rare-earths

April 1946

32,926

R-1197-N

Über die Nullpunktsentropie Kondensierter
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*JPRS for US Army Missile
Command Redstone Arsenal,
Alabama

Control of Electronic Currents With a Three-Electrode Crystal and a Model of a Depletion Layer, by R. Hilech, R. W. Pohl,

GERMAN, per, Z. fuer Physik, Vol III, 1938-1939, pp 399-403.

*ACSI H-9901
ID 2174776

Sci - Electron

26 Sep 61

On a Special Type of Discontinuous Spectra of Solid
Bodies, by H. Goldstein, 9 pp.

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SLA 56-63

Sci

Aug 59

93, 588

The Study of Emission Spectra of Solid Aromatic Substances by Means of the Ultraviolet Filter, by E. Goldstein, 12 pp.

GERMAN, pt., Physik, Vol XII, 1911, pp 614-620.

SLA 58-81

Sci

Aug 59

93, 589

Thermoelectric Refrigeration and Reversible
Electric Heating, by Edmund Altenkirch, 13 pp.

GERMAN, Fer, Z Physikalsche, 1911, Vol XII,
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SLA 59-15221

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Two Objections to the Theory of Relativity and Their
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Sci-Phys

9 Aug 60

Order from NYC

An Addendum to My Paper: "A Direct Measurement of
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6 pp.

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Sci - Phys

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Jul 63

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TT-63-20393

I. Becker, R.

Becker, R.
AN EQUATION OF STATE FOR NITROGEN AT
HIGH DENSITIES. [1963] 15p (figs tables formulae
omitted) 10refs
Order from SLA \$1.00

TT-63-20393

Trans. of Z[schrift für] Physik (Germany) 1921,
v. 4, p. 393-409.

DESCRIPTORS: *Nitrogen, *Liquefied gases,
*Explosive materials, *Equations of state, Quantum
mechanics.

(Physics, TT, v. 11, no. 3)

Office of Technical Services

Theory of the Intensity Distribution in Line
Spectra, by R. Seeliger.

GERMAN, per, Z. fuer Physik, No 4, 1921, pp 424-432.

Air Res and Dev Command

Scientific - Physics

TT 216 TT-236 U

Translation on tape June 55 (TS)

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On the Voltage- and Expansion-Coefficient of
Helium, Hydrogen and Nitrogen, by F. Henning,
W. Heuse.

GERMAN, .er, ~~XXXXXX~~ Z fuer Physik, Vol V,
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~~Redstone Arsenal, Alabama~~

DD 2-RE 2-42

Sci - Phys

17 May 63

The Study of Mixed Crystals and Solid
Phases, by L. Vegard, 3 pp.
GERMAN, per, Z. Physik, 5, 1921, pp. 393-
395.
*NBS TT 70-57849

Sci/phys
Jun 70

Ladenburg, R. and Minkowski, R.
THE HEAT OF VAPORIZATION OF SODIUM AND
THE PROBABILITY OF THE TRANSITION OF THE
SODIUM ATOM FROM THE RESONANCE STATE TO
THE NORMAL STATE ON THE BASIS OF OPTICAL
MEASUREMENTS. [1963] 18p (figs. omitted) 30refs
Order from SLA \$11.60 63-18686

Trans. of Z[schrift für Physik (Germany) 1921,
v. 6, p. 153-164.

DESCRIPTORS: *Heat of sublimation, *Sodium,
*Phase transitions, Resonance, *Quantum statistics,
Atomic energy levels, Optical analysis, Mathematical
analysis.

(Physics--Spectroscopy, TT, v. 10, no. 10)

63-18686

I. Ladenburg, R.
II. Minkowski, R.

R-1-2500

On the Diffusion on Top of and in Hg,
by M. Volmer, 12 pp.
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*NBS TT 70-57850

Sci/chem
Jun 70

On the Mechanisms of Molecular Motion in
Crystals, by M. Volmer, 4 pp.
GERMAN, per, Z. Physik, 7, 1921, pp. 13-17.
*NBS TT 70-57851

Sci/phys
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On the Nature of the Rupture Process,
by M. Polanyi,
(GERMAN, per, Zeitschrift fur Physik,
Vol VII, 1921, pp 323-327.

*ACSI 1-9310
ID 2204012566

Sci-Phys
Apr 66

63-14901

Becker, R.
SHOCK WAVES AND DETONATIONS: INTRODUCTION;
THE GENERATION OF THE COMPRESSION WAVE;
THE STATIONARY CONDENSATION IMPULSE. [1963]
4lp. 36 refs.

Order from SLA \$4.60

63-14901

Partial trans. (p. 321-347) of Zeitschrift für Physik
(Germany) 1921, v. 8 (p. 321-362).
A complete trans. of article is available from SLA as
AL-43.

DESCRIPTORS: *Shock waves, *Detonations, Com-
pressible flow, Differential equations, Thermal conduc-
tivity, Structures, Numerical analysis, Detonation
waves.

(Mechanics, TT, v. 10, no. 3)

I. Becker, R.
II. Title: Generation ...
III. Title: Stationary ...
IV. SLA AL-43

Office of Technical Services

A General Improvement of the Equations of Condition;
a Special Equation of Condition for Hydrogen, by
Leon Schames, *40.*

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pp 630-634. *9658552*

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~~*Redstone Arsenal, Alabama~~

Sci - Phys
17 May 63

DOC-FCI-50

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Shock Wave and Detonation, by R. Hecker

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S.L.A. Tr Pool

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CTS/DEK

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On the Isotherms of Nitrogen, Oxygen and Helium, by
L. Holborn,
GERMAN, per, Z fuer Physik, Vol X, 1922, pp 367-376.

Dept of Interior
TN7 E57 No 707

Sci - Phys

Mar 64

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A Differential Method for Measuring Dissipation
Loss Capacities, by S. Benner, 4 pp.

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SLA 57-2216

Sci
May 58

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Ultraviolet Resonance Spectro of Iodine
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1923, pp 1-11.

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Sci - Chem

Mar 62

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The Ion Exchange on the Dielectric. I. The
Electrode Function of Glasses, by Karl Horovitz,
48 pp.

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NIH 1-9-61

Scl - Med
Mar 61

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Method of Measuring the Size of Suspended Particles,
by Herman Rohmann, 14 pp.

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Scientific - Physics

A Magnetic Material for High Frequency Fields, by
R. Gans, 11 pp.

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SLA 58-189

Sci
Jul 59

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Disturbances in Pendulum and Gyroscopic Instruments
As a Result of Acceleration of Power Craft, by
H. Schuler, 20 pp.

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pp. 344-350.

SLA 59-15820

Sci

Oct 59

Vol 2, No 3

99, 930

On the Dependency of the Intensity of the Spectral
Lines on the Gas Pressure, by L. Strum.

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Based on the Interference Figures Observed in
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[1961] 66p (figs omitted) 113refs
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DESCRIPTORS: *Molecular structure, *Ions, Molecules, *Refraction, Halides, Halogens, Solutions, Gases, Oxygen, Hydrogen, Atoms, Chemical bonds, Molecular spectroscopy, *Atomic structure, Atomic orbitals

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DESCRIPTORS: Adsorption, Molecular beams,
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Sci - Phys

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DESCRIPTORS: *Dielectrics, *Mixtures.

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